

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) A coil arrangement with variable inductance comprising a first and a second toroid cores, said first toroid core carrying a first working winding and ~~[[a]]~~said second toroid core carrying a second working winding, each of said first and said second working windings wound on its respective toroid core only, and a control winding (50; 60) wound on both the first and second toroid cores for pre-magnetizing the core material of the first and the second toroid cores (40, 42; 52, 54);

each working winding (46, 48; 56, 58) is evenly distributed around the periphery of the respective toroid core;

each of the toroid cores (40, 42; 52, 54) is wound with the working windings (46, 48; 56, 58) in a single layer; and

the windings of the control winding (50) are distributed over the circumference of the two toroid cores (40, 42).

2. (Previously Presented) A coil arrangement according to claim 1, wherein the toroid cores (40, 42) are arranged next to each other in such a way that their axes of symmetry (44) are in line.

3. (Currently Amended) A coil arrangement according to ~~claim 2~~ claim 1, wherein the windings of the control winding (50) are distributed evenly over the circumference of the two toroid cores (40, 42).
4. (Previously Presented) A coil arrangement according to claim 1, wherein the two toroid cores (52, 54) are arranged adjacent to each other in a common plane.
5. (Cancelled)
6. (Previously Presented) A coil arrangement according to claim 1, wherein each working winding (46, 48; 56, 58) is formed from a single insulated wire, a group of parallel non-twisted insulated wires or from a litz wire consisting of twisted single insulated wires.
7. (Canceled).
8. (Previously Presented) A coil arrangement according to claim 1, wherein the two toroids cores (40, 42; 52, 54) have identical dimensions and the two working windings (46, 48; 56, 58) have essentially the same number of turns and identical wire thicknesses.
9. (Previously Presented) A coil arrangement according to claim 1, wherein the working windings (46, 48; 56, 58) consist of a single wire or parallel non-twisted single

wires, whereby the single wire thickness is not greater than three times the skin effect penetration depth of the working frequency.

10. (Previously Presented) A coil arrangement according to claim 1, wherein the working windings (46, 48; 56, 58) are formed from a twisted litz wire with the diameter of the individual wires being not greater than the single skin effect penetration depth.

11. (Previously Presented) A coil arrangement according to claim 1, wherein the working windings (46, 48; 56, 58) are connected in parallel and the winding direction of the working windings (46, 48; 56, 58) is chosen such that when a current flows in the working windings, the directions of its magnetic fields in the control core (50) point are opposite to each other.

12. (Previously Presented) A coil arrangement according to claim 1, wherein the working windings (46, 48; 56, 58) are connected in series and the winding direction of the working windings (46, 48; 56, 58) is chosen so that when a current flows in the working windings, the directions of its magnetic fields in the control core (50) point in the opposite direction to each other.

13. (Currently Amended) A coil arrangement with variable inductance comprising a first and a second toroid cores (40, 42; 52, 54), said first toroid core carrying a first working winding and a second toroid core carrying a second working winding,

each of said first and said second working windings wound on a respective toroid core only, and

a control winding (50; 60) wound on both the first and second toroid cores for pre-magnetizing the core material of the first and second toroid cores;

wherein each of said first and second working windings is evenly distributed around the periphery of the respective toroid core;

each working winding (46, 48; 56, 58) is evenly distributed around the periphery of the respective toroid core;

each of the toroid cores (40, 42; 52, 54) is wound with the working windings (46, 48; 56, 58) in a single layer; and

the windings of the control winding (50) are distributed over the circumference of the two toroid cores (40, 42).

14. (Previously Presented) A coil arrangement according to claim 13, wherein the toroid cores (40, 42) are arranged next to align their axes of symmetry (44).

15. (Previously Presented) A coil arrangement according to claim 14, wherein the windings of the control winding (50) are distributed evenly over the circumference of the two toroid cores (40, 42).